For each i /* rows */

for each j /* columns */

for each u /* u = 0,1,..., k */

$$MM_u(i,j) = M_u(i,j) + \sum_{x,y} w_u(x,y)e_u(i-x,j-y)$$

endfor (u)

$$ExOut(i,j) = \arg\min_{c \in C} \left(\sum_u v_u |MM_u(k,l) - c_u|^p\right)^{1/p}$$

/* c_u is the (u+1)-th coordinate of c */

$$(e_0(i,j), \ldots e_k(i,j)) = (MM_0(i,j), MM_1(i,j), \ldots MM_k(i,j)) - ExOut(i,j)$$

endfor (j)

endfor (i)

Set embedded source image M_0' as the first coordinates of ExOut.

Figure 1A

Figure 1B

100

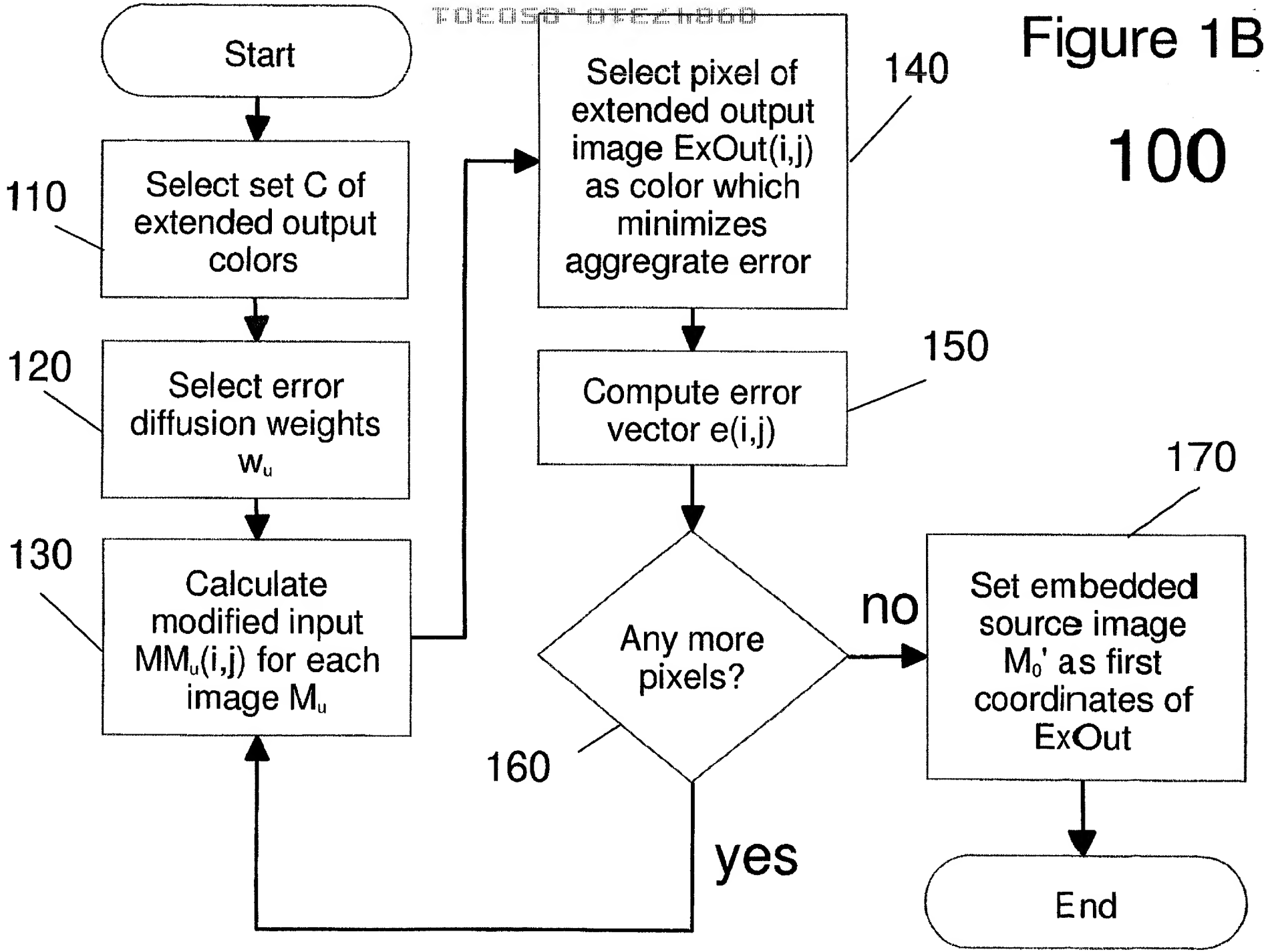

FIGURE 2A

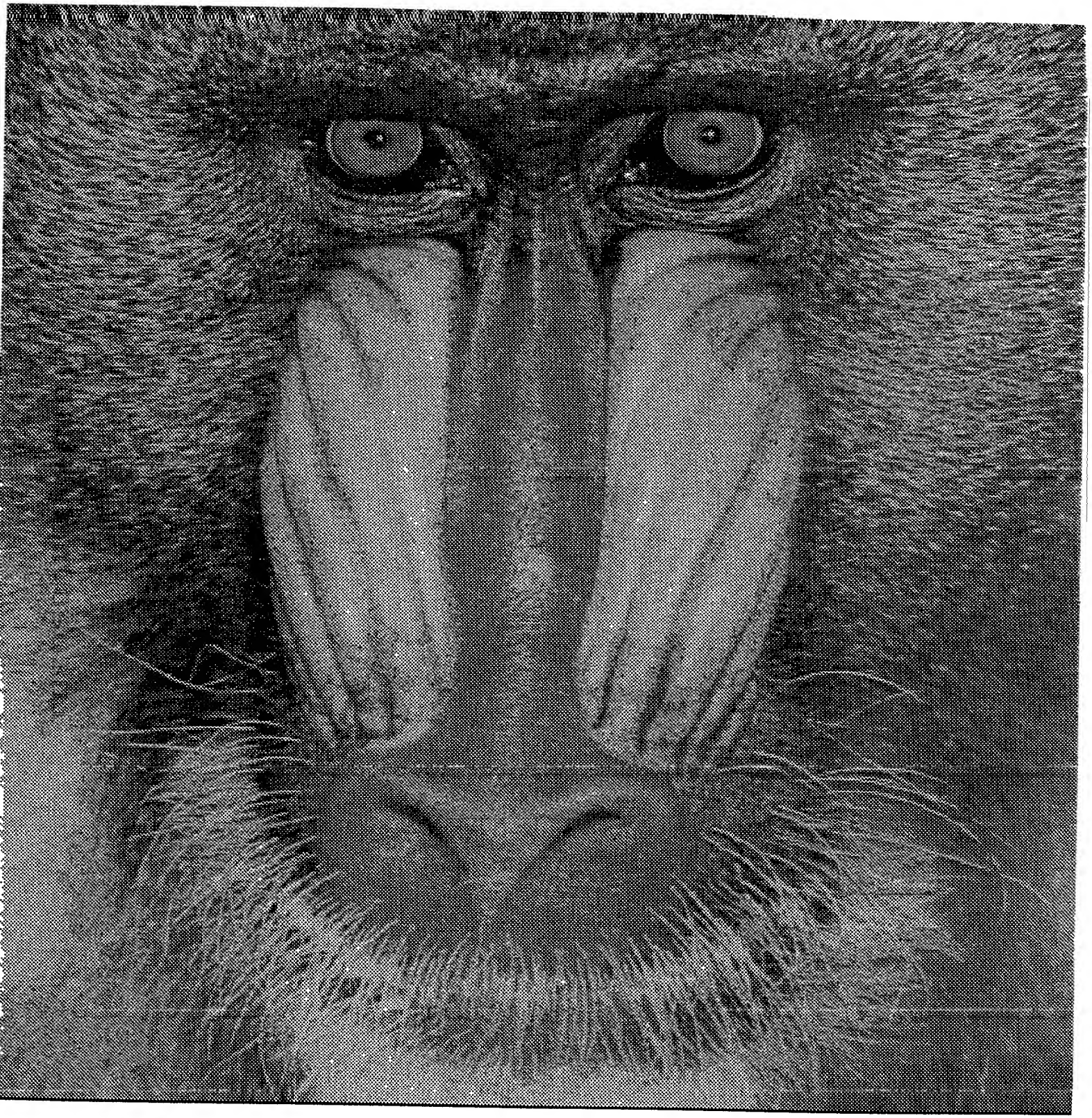

FIGURE 2B

FIGURE 2C

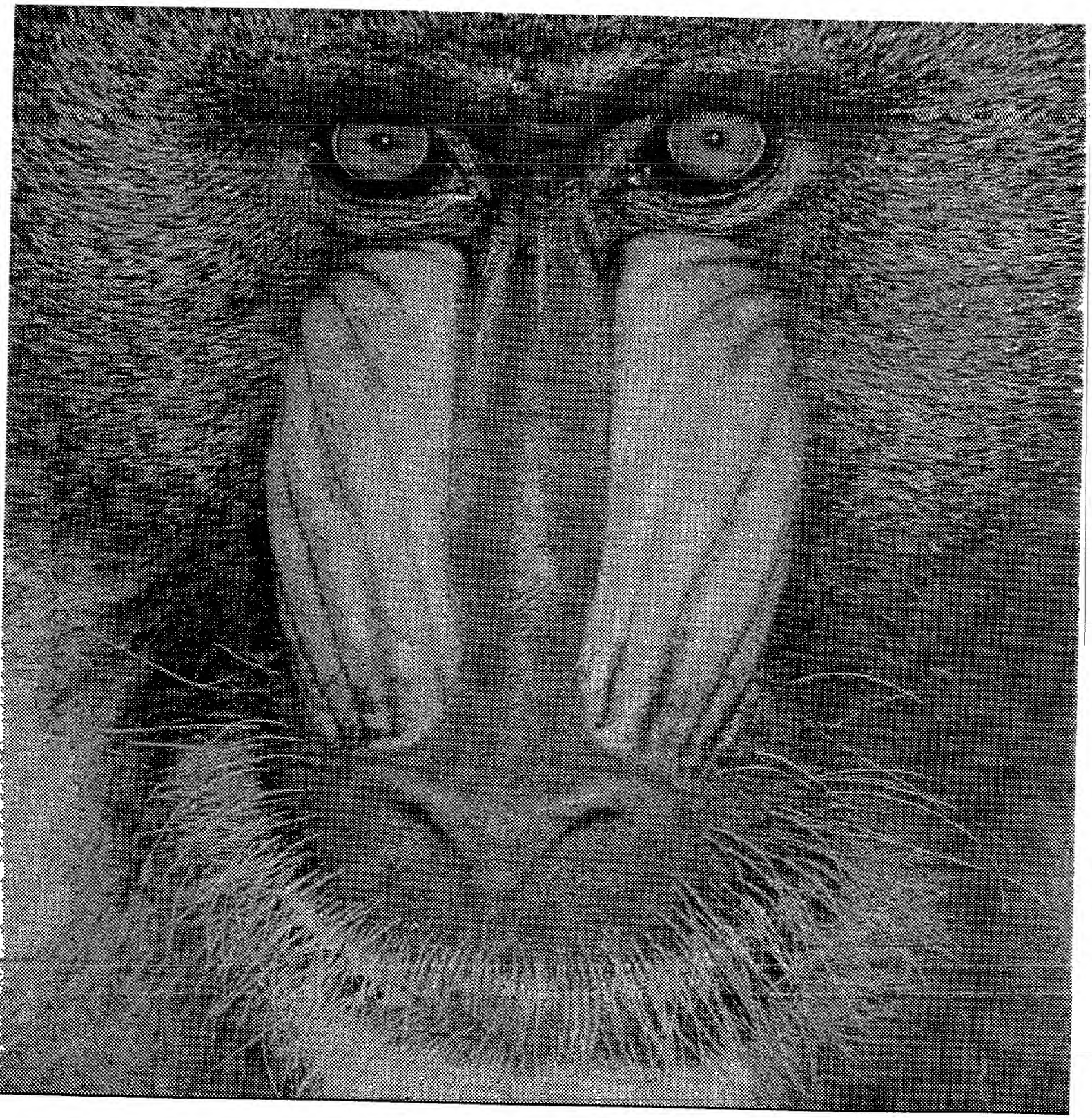

FIGURE 2D

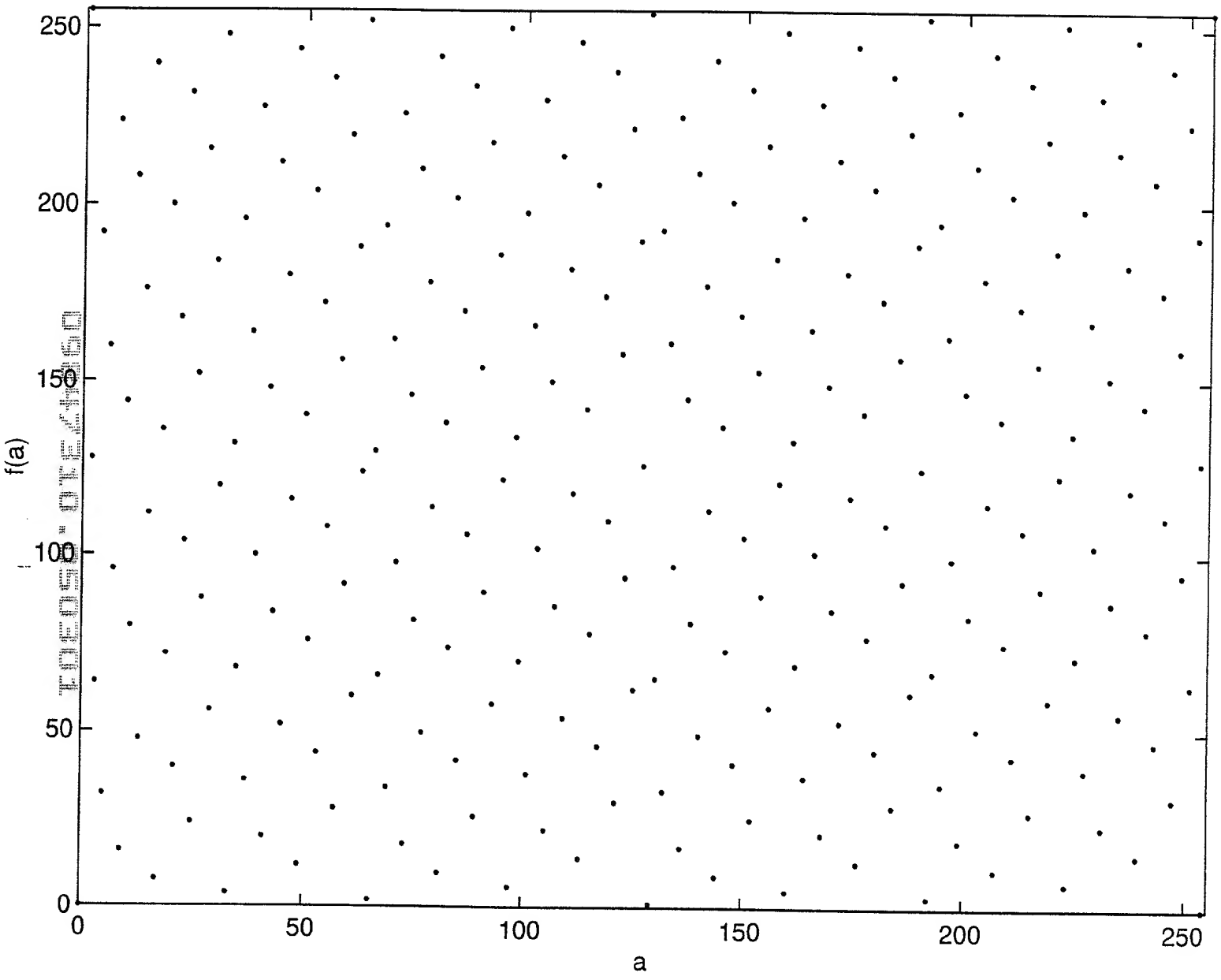

FIGURE 3A

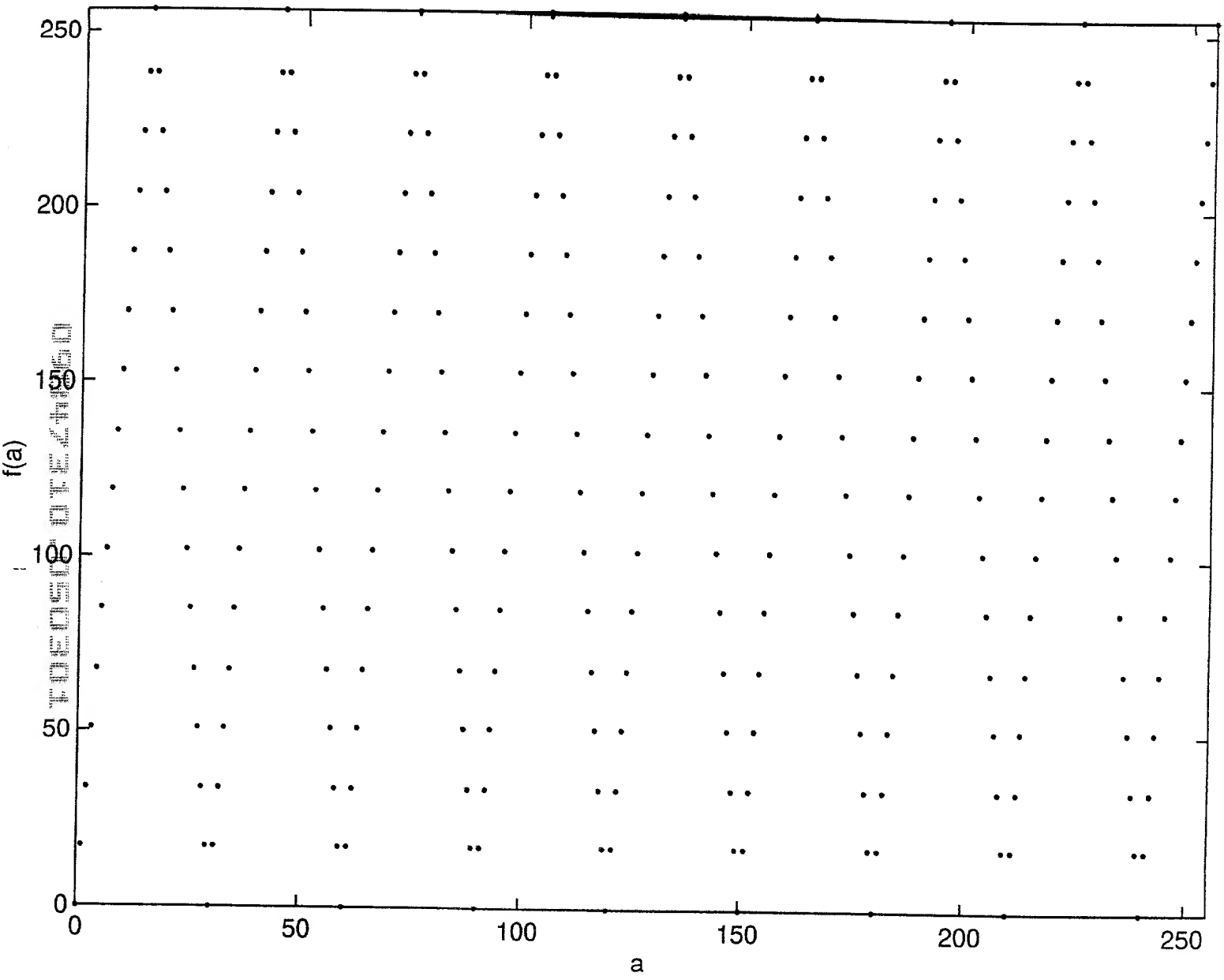

FIGURE 3B

FIGURE 4A

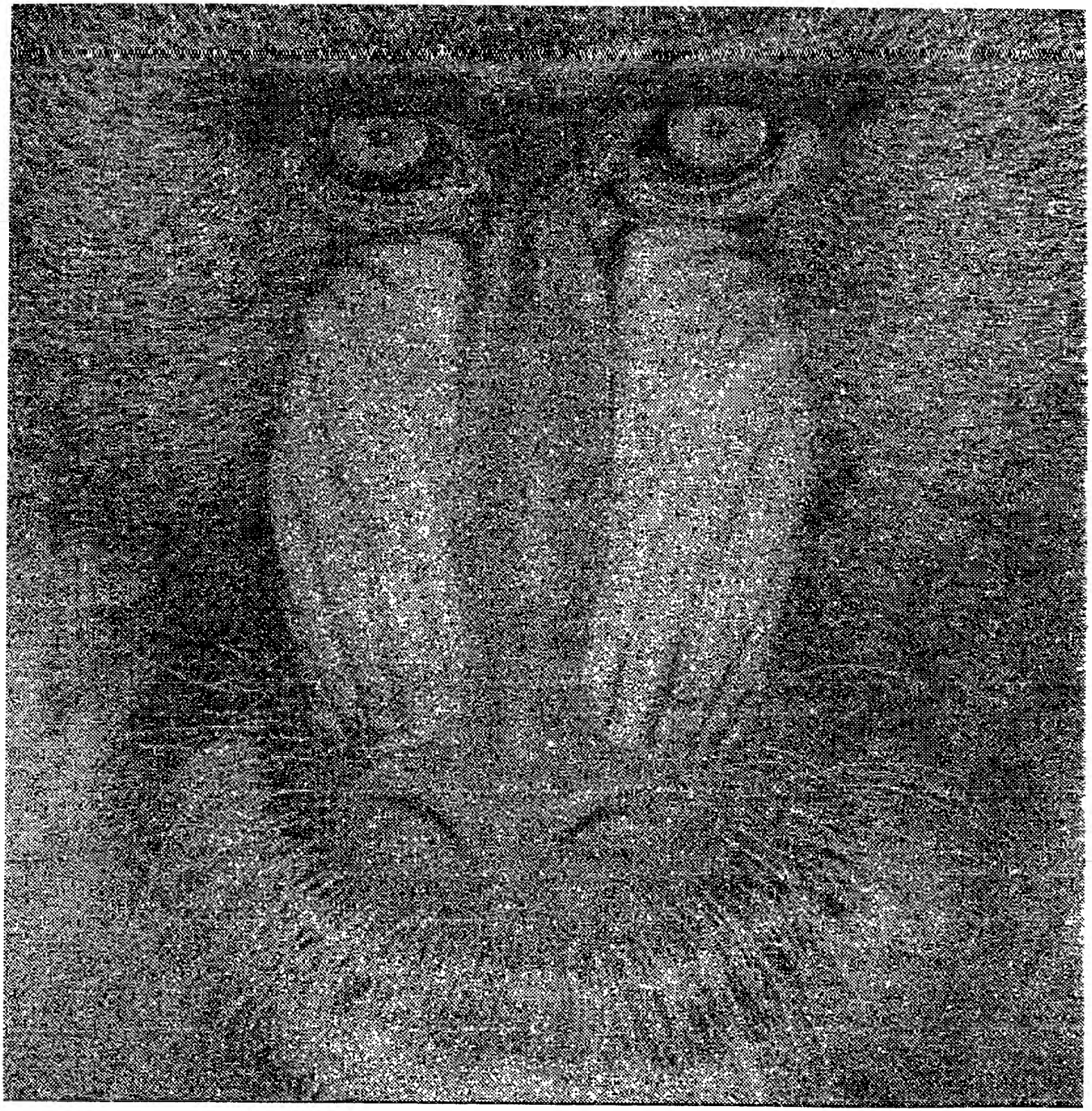

FIGURE 4B

```
For each iteration                          /* iteration */
  for each i                    /* rows */
    for each j                  /* column */
      for each member d of C    /* search through
                                   all possible members
                                   of C */
        set ExOut(i,j) = d
        compute
            v(d)=|L(ExOut0 - M0)|^2+|L(PExOut1 - M0)|^2
      endfor (d)
      set ExOut(i,j) = argmin_d v(d)
    endfor (j)
  endfor (i)
endfor (iteration) or until ExOut has not changed
between two consecutive iterations.
Set embedded source image M0' as the first
coordinates of ExOut.
```

Figure 5A

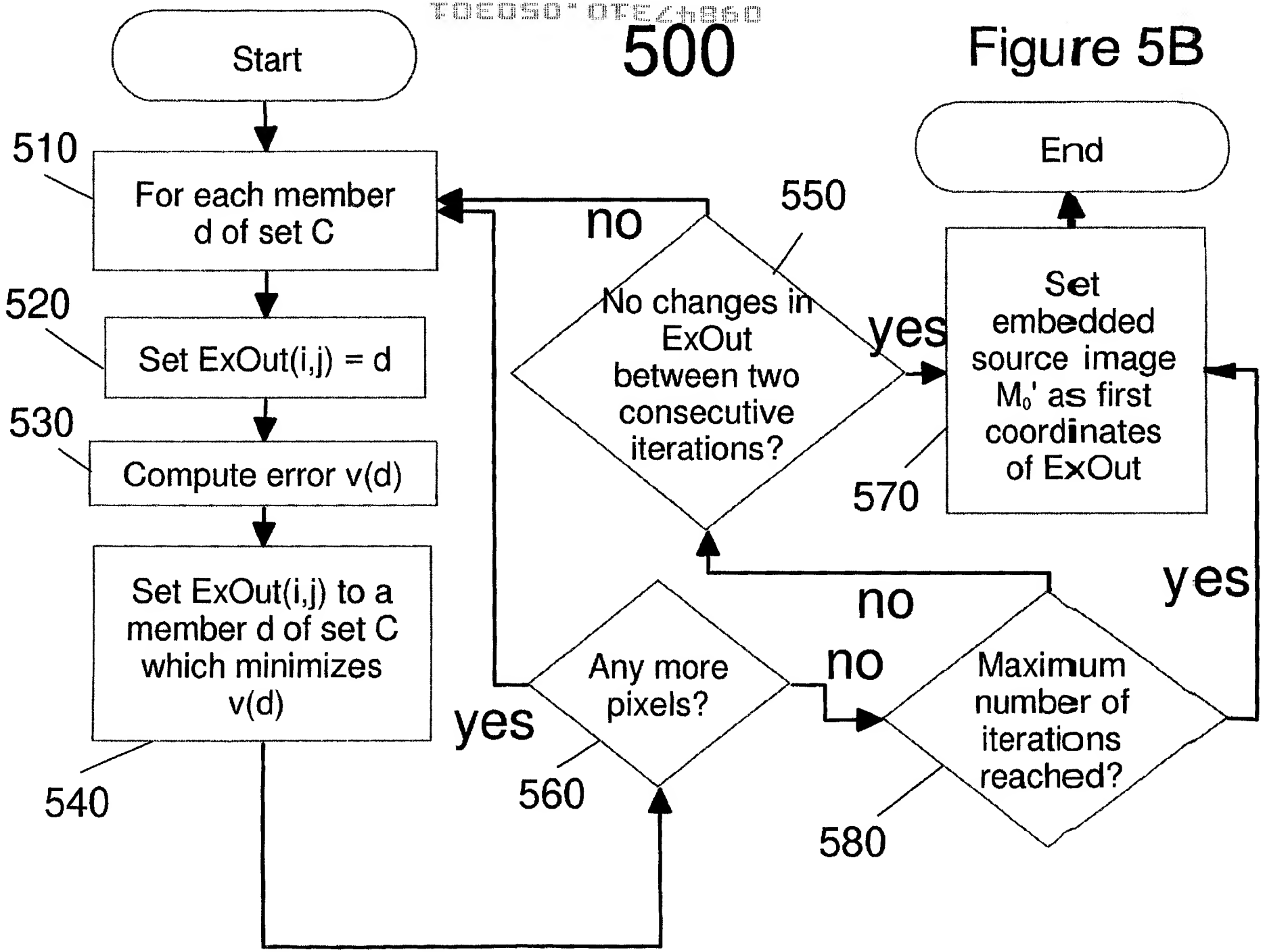
500
Start
510
For each member d of set C
520
Set ExOut(i,j) = d
530
Compute error v(d)
Set ExOut(i,j) to a member d of set C which minimizes v(d)
540
Any more pixels?
560
yes
no
No changes in ExOut between two consecutive iterations?
550
yes
no
Maximum number of iterations reached?
580
yes
no
Set embedded source image M_0' as first coordinates of ExOut
570
End

Figure 5B

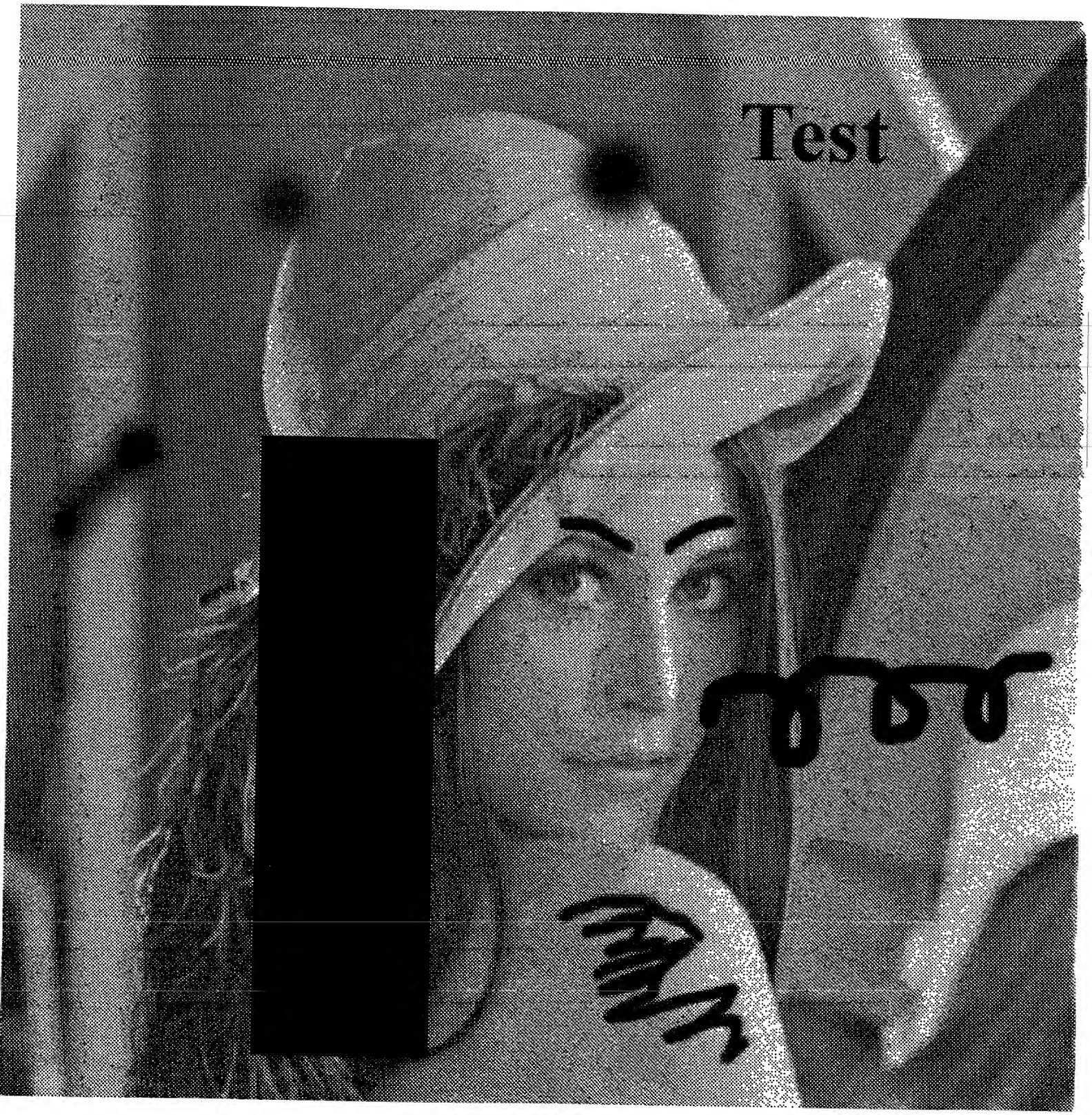

FIGURE 6A

FIGURE 6B

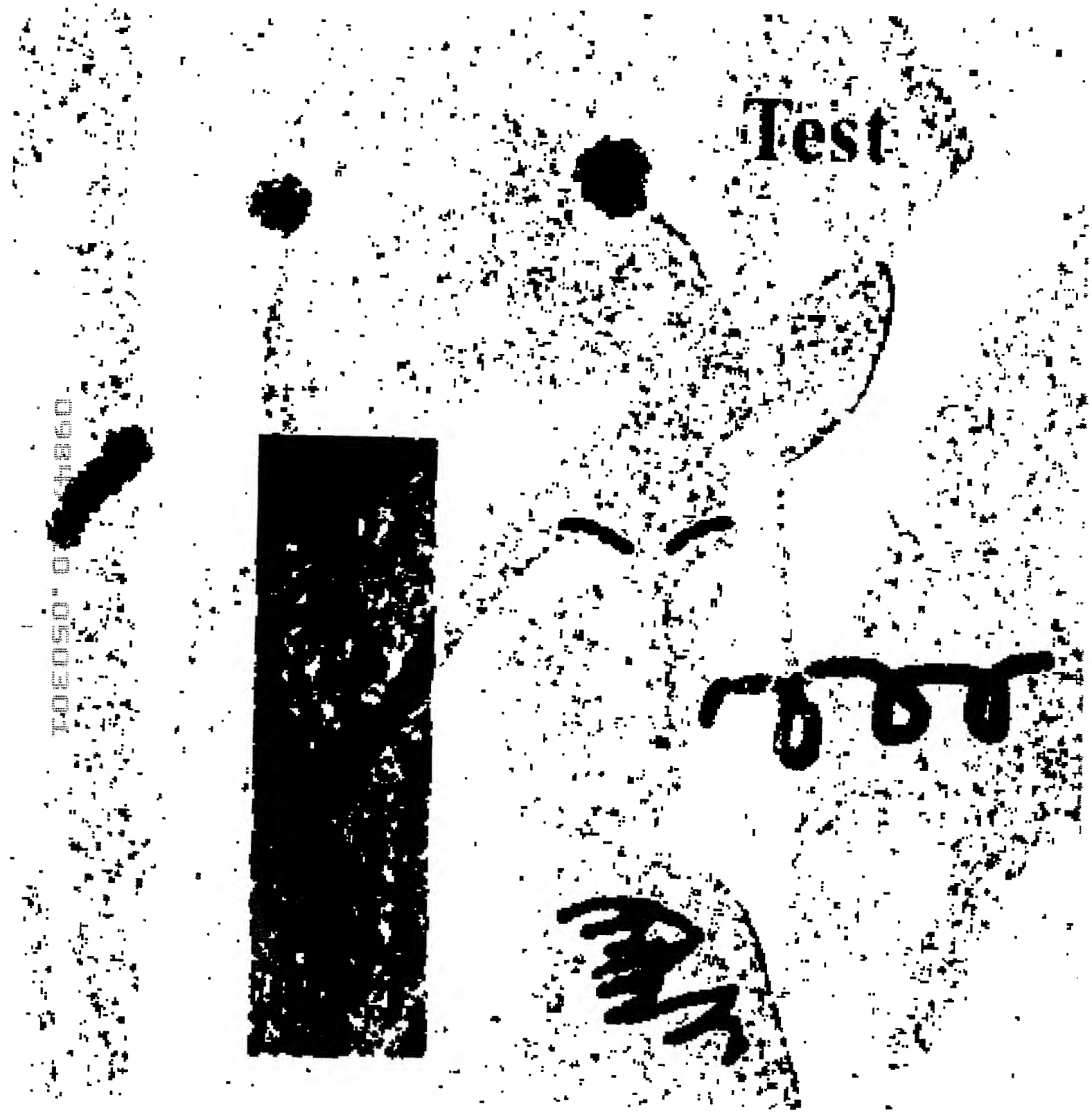

FIGURE 6C

FIGURE 6D

FIGURE 6E

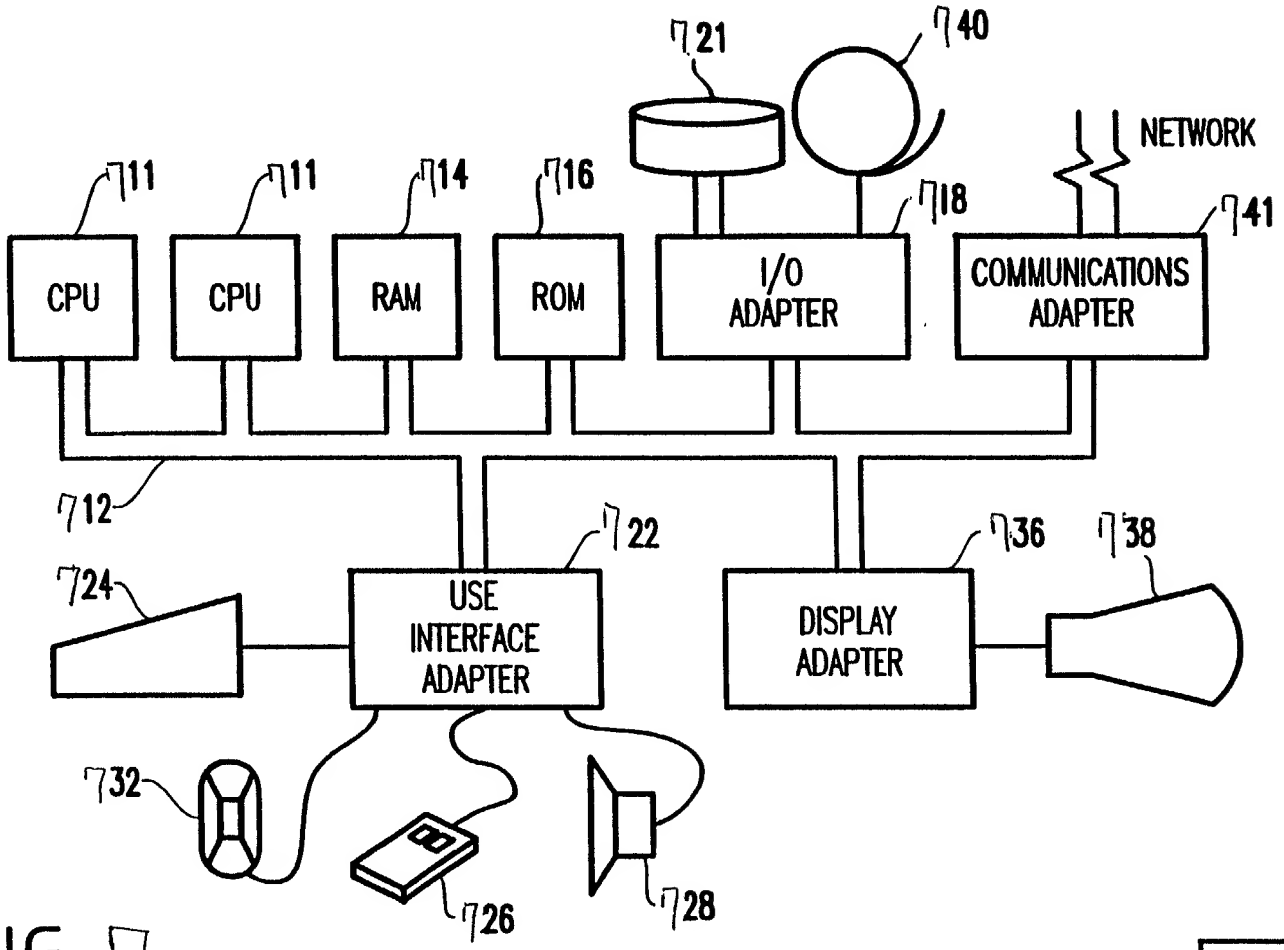

FIG. 7

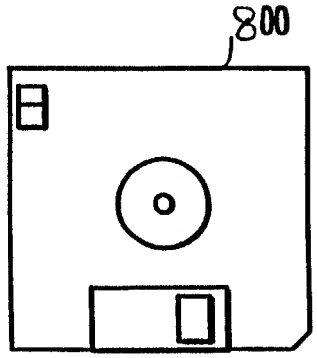

FIG. 8